

## A Contribution to our Knowledge of the Wild and Cultivated Flora of Delaware—I

HAROLD N. MOLDENKE

The present paper comprises an annotated list of 66 collections of Delaware plants, representing 60 species and subspecific entities in 53 genera and 27 botanical families. It is one of a series by the same author on the flora of each of the states of the United States and several foreign countries.<sup>1</sup> The sequence of families followed is that of the author's preliminary classification of the Plant Kingdom,<sup>2</sup> which, in turn, is based, with modifications, on the latest available studies of the various groups—the systems of Engler & Diels and of Hutchinson being followed in major part.

It is a pleasure to acknowledge the generous and valuable assistance rendered the author by Mrs. Agnes Chase, who identified the material of *Eragrostis* and *Panicum*, the late Kenneth K. Mackenzie, who identified *Carex*, and Dr. Francis W. Pennell, who identified *Penstemon*.

The first set of specimens herein cited is deposited in the Britton Herbarium at The New York Botanical Garden; other sets are in the herbaria of the University of Pennsylvania, University of Illinois, Missouri Botanical Garden, Duke University, Carthage College, Cornell University, Carnegie Museum, Naturhistoriska Riksmuseum in Stockholm, Royal Botanic Gardens in Kew, Botanisches Museum in Berlin, Botaniska Trädgård in Göteborg, Conservatoire Botanique in Geneva, Jardin Botanique de l'Etat in Brussels, British Museum (Natural History) in London, Jardin Botanique de l'Université Jagellonienne at Krakow, Vaclav Skrivanek herbarium at Vyskov, and elsewhere. The collection numbers, for citation purposes, are all H. N. Moldenke collection and citation numbers, although the material of numbers 7503 to 7516, inclusive, was actually collected by Dr. Charles Edward Moldenke<sup>3</sup> in 1933, the material of numbers 6680 to 6682, inclusive, was collected by Dr. C. E. Moldenke and his wife, Mrs. Sophia Meta Moldenke, who col-

<sup>1</sup> Moldenke, H. N., A contribution to our knowledge of the wild and cultivated flora of Ohio—I, *Castanea* 9:1-80. 1944; A contribution to our knowledge of the wild and cultivated flora of Florida—I, *Am. Midl. Nat.* 32: 529-590. 1945; A contribution to our knowledge of the wild and cultivated flora of Massachusetts—I, *TORREYA* 45: 41-52. 1945; A contribution to our knowledge of the wild and cultivated flora of Maryland—I, *TORREYA* 45: 79-92. 1945.

<sup>2</sup> Moldenke, H. N., A preliminary classification of the plant kingdom to families, pp. 1-37. New York Botanical Garden, February 11, 1944.

<sup>3</sup> *Dictionary of American Biography* 13: 79. 1931; *Science*, new ser., 81: 191. 1935; *National Cyclopaedia of American Biography* 24: 54-55. 1935; *Encyclopedia of American Biography* 4: 292-294. 1935; *White's Conspectus Am. Biog.*, ed. 2, 307. 1937; *Who Was Who in America* 1: 853. 1942.

lected together in the state in 1931, and that of numbers 17510 to 17518, 17525, and 17911 to 17915 was collected by Morris and DeEtta Berd in 1945. Wherever the identification given here or the nomenclature here employed differs from that on the labels of the material when distributed, this fact is noted so that herbarium curators may make the necessary corrections, if they so desire. Where it differs from the author's previously published classified list of collections,<sup>4</sup> this fact is also noted on the following pages.

## PINACEAE

PINUS TAEDA L.—*Sussex Co.*: in woodlands, near Selbyville, 6682.

## RANUNCULACEAE

CLEMATIS PANICULATA Thunb.—*Newcastle Co.*: escaped along roadside embankments, Mount Pleasant, 13804.

## BERBERIDACEAE

BERBERIS VULGARIS L.—*Newcastle Co.*: in outdoor cultivation, Wilmington, 7506.

## SAURURACEAE

SAURURUS CERNUUS L.—*Kent Co.*: in wet swampy woods, Dover, 2157.

## BRASSICACEAE

ARABIDOPSIS THALIANA (L.) N. L. Britton—*Sussex Co.*: in waste ground, Millsboro, 6917.

## CARYOPHYLLACEAE

AGROSTEMMA GITHAGO L.—*Kent Co.*: in rye fields, Felton, 7513.

## GERANIACEAE

ERODIUM CICUTARIUM (L.) L'Hér.—*Sussex Co.*: in sandy soil along roadsides, Millsboro, 6915; in dry fields one mile south of Seaford, 7515.

## MELASTOMACEAE

RHEXIA MARIANA L.—*Kent Co.*: along roadsides, Smyrna, 2154.

RHEXIA VIRGINICA L.—*Kent Co.*: in moist ditches along roadsides, Smyrna, 2155.

## MALVACEAE

HIBISCUS SYRIACUS L.—*Newcastle Co.*: escaped or persistent along roadside, Mount Pleasant, 13806.

## MALACEAE

ARONIA ARBUTIFOLIA (L.) Ell.—*Kent Co.*: at edge of woods, Smyrna, 5088.

## AMYGDALACEAE

PADUS VIRGINIANA (L.) Mill.—*Newcastle Co.*: in outdoor cultivation, Wilmington, 7507.

## CAESALPINIACEAE

CHAMAECRISTA NICTITANS (L.) Moench—*Newcastle Co.*: on grassy borders of woodland, Arden, 17914.

## MIMOSACEAE

ALBIZZIA JULIBRISSIN Durazz.—*Newcastle Co.*: in outdoor cultivation, Arden, 17911.

<sup>4</sup> Moldenke, H. N., An annotated and classified list of H. N. Moldenke collection numbers from no. 1 to no. 11,277, inclusive, pp. 1-135. New York Botanical Garden, December 6, 1939.

## FABACEAE

- AMORPHA FRUTICOSA L.—*Newcastle Co.*: in outdoor cultivation, Wilmington, 7505.
- BAPTISIA TINCTORIA (L.) Vent.—*Kent Co.*: in woodlands and along wood roads, Dover, 2156, distributed as "*B. tinctoria* (L.) R. Br." and so cited on page 62 of the Classified List.
- CYTISUS SCOPARIUS (L.) Link.—*Kent Co.*: in sandy soil, south of Dover, 1258a. *Newcastle Co.*: large colony in sandy soil at edge of river, St. Georges, 1259.
- LESPEDEZA INTERMEDIA f. HAHNII (Blake) Hopkins—*Sussex Co.*: in dry sandy woodlands, near Greenwood, 13814.
- LESPEDEZA PROCUMBENS Michx.—*Sussex Co.*: in dry sandy woods, near Greenwood, 13816.
- LESPEDEZA REPENS (L.) Bart.—*Sussex Co.*: in dry sandy woodlands, near Greenwood, 13815.
- LESPEDEZA STIPULACEA Maxim.—*Sussex Co.*: very abundant in pure-stand colonies bordering highway, near Greenwood, 13813.
- LESPEDEZA VIRGINICA (L.) N. L. Britton—*Kent Co.*: in large colonies in dry sandy fields, Camden, 13811.
- LUPINUS PERENNIS L.—*Sussex Co.*: in evergreen woods, Millsboro, 6920.
- STROPHOSTYLES HELVOLA (L.) N. L. Britton—*Newcastle Co.*: climbing over dry embankments, Mount Pleasant, 13808.
- TRIFOLIUM ARVENSE L.—*Kent Co.*: in sandy fields, Dover, 2127.
- TRIFOLIUM INCARNATUM L.—*Kent Co.*: in dry sandy fields, south of Dover, 1258; in sandy field, Felton, 7511.
- VICIA CRACCA L.—*Kent Co.*: in sandy fields, Felton, 7512.

## AMMIACEAE

- SANICULA MARILANDICA L.—*Newcastle Co.*: in open woods, Arden, 17514.

## VACCINIACEAE

- DECACHAENA BACCATA (Wang.) Small—*Sussex Co.*: at edge of woods, Delmar, 7508, distributed as *Gaylussacia baccata* (Wang.) K. Koch.

## RUBIACEAE

- DIODELLA TERES (Walt.) Small—*Newcastle Co.*: in dry soil along roadsides, Blackbird, 13810.

## CAPRIFOLIACEAE

- VIBURNUM PRUNIFOLIUM L.—*Newcastle Co.*: in outdoor cultivation, Wilmington, 7504.

## CICHORIACEAE

- CHONDRILLA JUNCEA L.—*Newcastle Co.*: along fencerows, Mount Pleasant, 13807.
- KRIGIA VIRGINICA (L.) Willd.—*Sussex Co.*: in dry sandy fields, Millsboro, 6921.

## CARDUACEAE

- ANTENNARIA PLANTAGINIFOLIA (L.) Richards—*Sussex Co.*: in dry woodlands, Delmar, 7509.
- ASTER DUMOSUS L.—*Sussex Co.*: in dry sandy fields, near Selbyville, 6680.
- BIDENS BIPINNATA L.—*Newcastle Co.* in waste soil and along roadsides, Mount Pleasant, 13805.
- CHRYSOPSIS MARIANA (L.) Nutt.—*Sussex Co.*: very abundant in dry sandy fields, near Greenwood, 13812.
- CIRSIUM DISCOLOR (Muhl.) Spreng.—*Kent Co.*: along roadsides, Dover, 5089.
- EPATORIUM VERBENAEFOLIUM Michx.—*Sussex Co.*: in dry sandy woods, near Greenwood, 13819.

HETEROTHECA SUBAXILLARIS (Lam.) Britton & Rusby—*Sussex Co.*: in sandy soil along roadsides, near Selbyville, 6681.

PLANTAGINACEAE<sup>3</sup>

PLANTAGO VIRGINICA L.—*Sussex Co.*: in dry sandy fields and along roadsides, Millsboro, 6926.

## BORAGINACEAE

LITHOSPERMUM ARVENSE L.—*Sussex Co.*: in waste ground, Millsboro, 6919.

## SCROPHULARIACEAE

LINARIA CANADENSIS (L.) Dumort.—*Kent Co.*: in dry fields, Felton, 7514. *Sussex Co.*: in waste ground, Millsboro, 6918; in dry fields, one mile south of Seaford, 7516.

PENSTEMON DIGITALIS Nutt.—*Newcastle Co.*: in grassy meadows, Arden, 17518, det. Pennell.

VERBASCUM BLATTARIA f. ALBIFLORUM (G. Don) House—*Newcastle Co.*: in dry grassy fields, Arden, 17517.

## BIGNONIACEAE

CAMPSIS RADICANS (L.) Seem.—*Newcastle Co.*: climbing over fenceposts along roadsides, Blackbird, 13809.

## LAMIACEAE

PHYSOSTEGIA VIRGINIANA (L.) Benth.—*Newcastle Co.*: growing as weed in cultivated ground, Arden, 17525.

PHYCANTHEMUM FLEXUOSUM (Walt.) B.S.P.—*Newcastle Co.*: in grassy field, Arden, 17913.

PHYCANTHEMUM VIRGINIANUM (L.) Durand & Jacks.—*Newcastle Co.*: in grassy field, Arden, 17912.

## CYPERACEAE

CAREX LURIDA Wahl.—*Newcastle Co.*: in moist sandy soil along ditches, St. Georges, 1260, det. Mackenzie.

CYPERUS STRIGOSUS L.—*Newcastle Co.*: in moist ditches, Arden, 17915

## POACEAE

ARISTIDA DICHOTOMA Michx.—*Sussex Co.*: in wet sandy ditches, Millsboro, 6916, distributed and cited on page 20 of the Classified List as *Sporobolus vaginaeflorus* Torr.

BROMUS COMMUTATUS Schrad.—*Newcastle Co.*: in grassy meadows, Arden, 17511, det. Chase, 17513, det. Chase.

DACTYLIS GLOMERATA L.—*Newcastle Co.*: in orchard near town, Arden, 17515.

ERAGROSTIS CAPILLARIS (L.) Nees—*Sussex Co.*: in dry sandy woods near Greenwood, 13818, det. Chase.

FESTUCA ELATIOR L.—*Newcastle Co.*: in grassy meadows, Arden, 17512, det. Chase.

PANICUM POLYANTHES Schult.—*Sussex Co.*: in dry sandy woods near Greenwood, 13817, det. Chase.

PHLEUM PRATENSE L.—*Newcastle Co.*: in grassy meadows, Arden, 17510.

POA PRATENSIS L.—*Kent Co.*: in dry fields, near Harrington, 7510.

TRIODIA FLAVA (L.) Smyth—*Newcastle Co.*: in margins of woods, Arden, 17516, det. Chase.